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USER'S MANUAL

MANUEL DE L'UTILISATEUR
MANUAL DEL USUARIO

WB84U1D1

Interactive White Board
Operating Instruction

Before operating the unit, please read this manual thoroughly,
and retain it for future reference.

Safety Warning

Before operating the unit, please read this manual thoroughly,
and retain it for future reference.

Placement

Do not place the unit on an unstable cart, stand, tripod, bracket, table, or shelf.
Do not expose the unit to direct sunlight and other sources of heat.
Do not place the unit near appliances that create magnetic fields.
Do not handle liquids near or on the unit.
Never spill liquid of any kind into the unit
Do not put heavy objects on top of the unit.

Power Supply

Check that the unit's operating voltage is identical with your local power supply.
Please unplug power supply and aerial plug during a thunder (lightening) storm.
Please unplug power supply, when there is nobody at home or not using over a long period of time.
Please protect power cord from any physical or mechanical damage.
Please use power cord provided, don't modify or lengthen it.
Please check and ensure AC source is grounded.
For 55/65/70/84 inch Display equipment: Fuse rating in inlet is 6.3A, 250 VAC.

LCD Screen

Never use any other tough or sharp object to replace with the original touch-write pen.
Unplug the power supply before cleaning.
Clean the screen with a soft dustless dry cloth.
Never use water or detergent to clean the unit.
For deep clean, contact an authorized service center.
Please don't display the high brightness image on the screen for a long time.

Observation Distance

The best distance between audience and screen is 5-7 times that of screen size diagonally.
The best watching angle between audience and screen is within 176 degrees.

Temperature

Do not place the unit near a radiator or heater.
If your unit is suddenly moved from a cold to a warm place, unplug the power cord for at least two hours allowing the moisture that may have formed inside the unit to dry.
Normal operating temperature is 0~40℃, storage temperature is -20~60℃

Humidity

Do not expose machine to rain, damp area or place near water.
Ensure the indoor operating humidity is 10~90%, storage humidity is 10~95%.

Ventilation

Keep all ventilation openings clear.
Ensure that the unit has enough space for ventilation around: left, right and back >10cm, top> 20cm.

Standby

Standby mode will not turn off the unit.
Press Power button on remote unit to activate standby mode.

Battery

Properly maintain the batteries and recycle the used batteries.

Caution

This is a Class B product , there is not cause radio interference.

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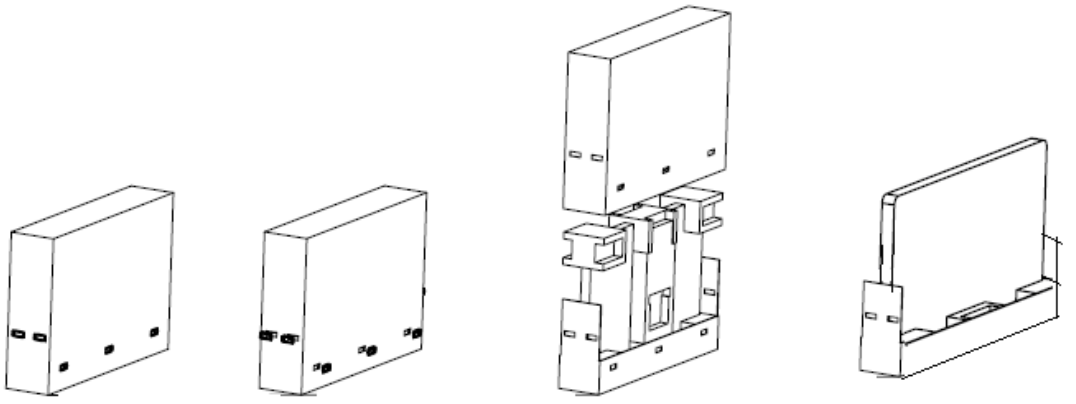
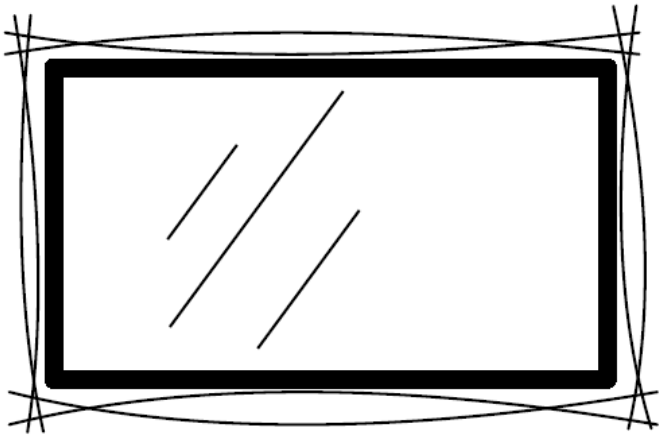
1 INSTALLATION

1.1 Open the package



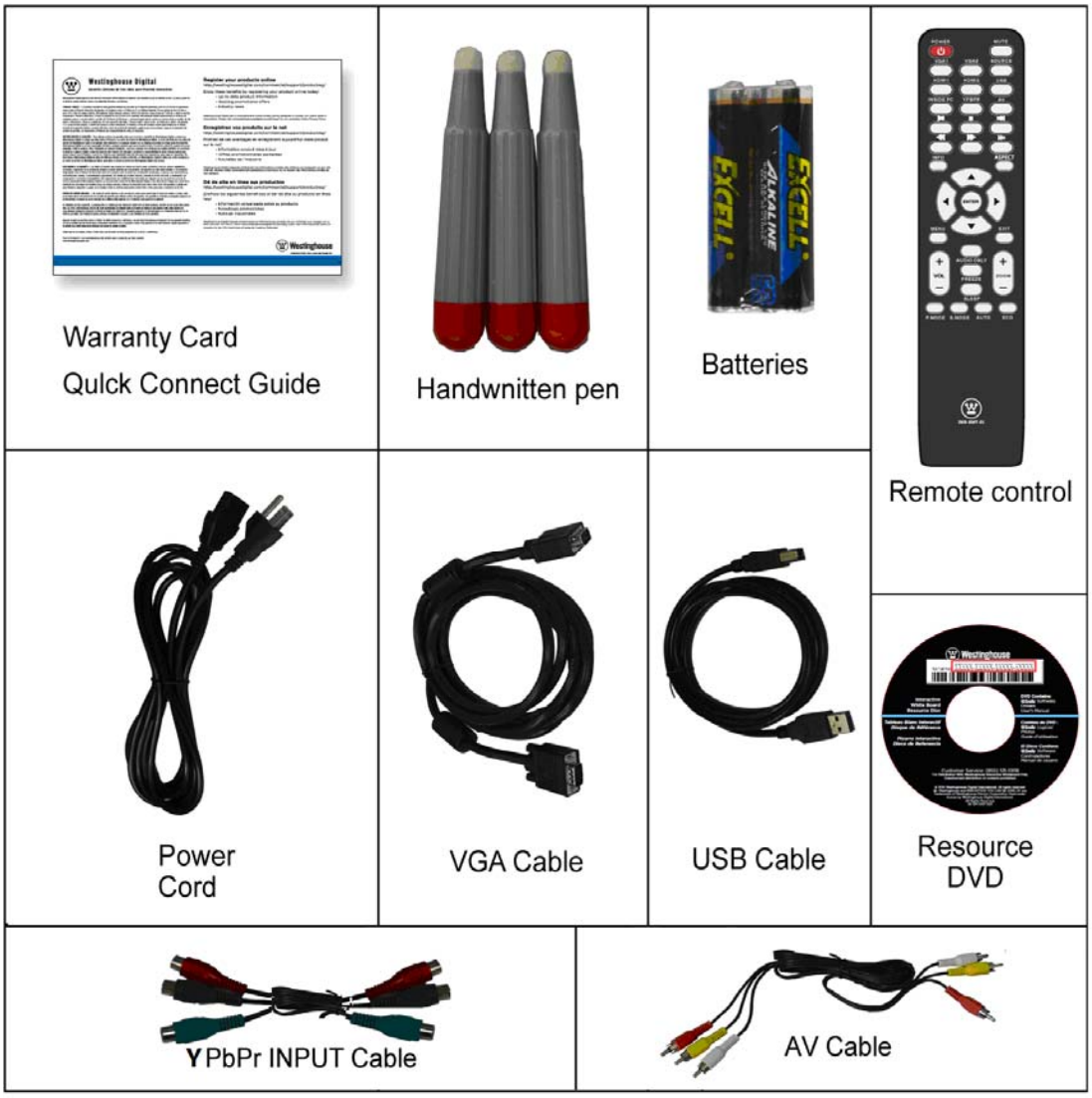
Carton Box | Loose 10 pcs handles | Move-Up Carton Body | Take off EPE & Left IWB Display

Step-1: Take out the carton handles.
Step-2: Move-Up the carton body.
Step-3 : Take Off EPE packing material & Left IWB display .
Step-4: Be careful to Move out IWB display. It is heavy and easy to be slide, Please carefully and better Wear gloves when move display from carton box .



1.2 Checking parts

Warranty Card, Quick Connect Guide, Remote Control, Power Cord,
VGA/USB/Audio/AV/YPBPR cables, Batteries, handwritten pen and DVD.

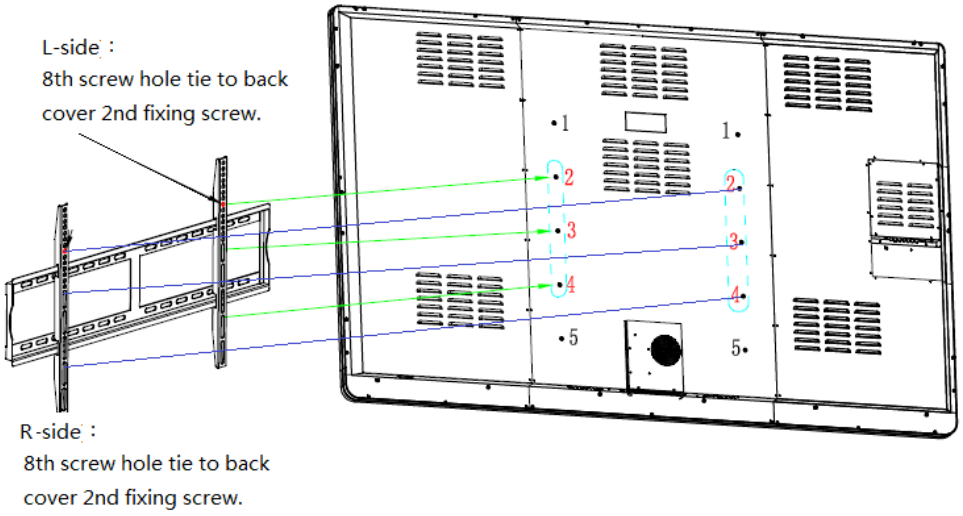


1.3 Installation

The IWB Stand (matched) takes material object as the standard, Please read “IWB Stand Installing Instruction” while installing.

1.3.1 Mounting Bracket tie-up to IWB display

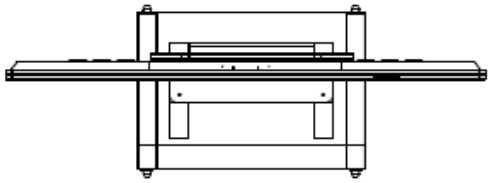
IWB Back View

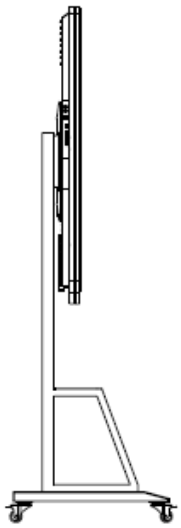


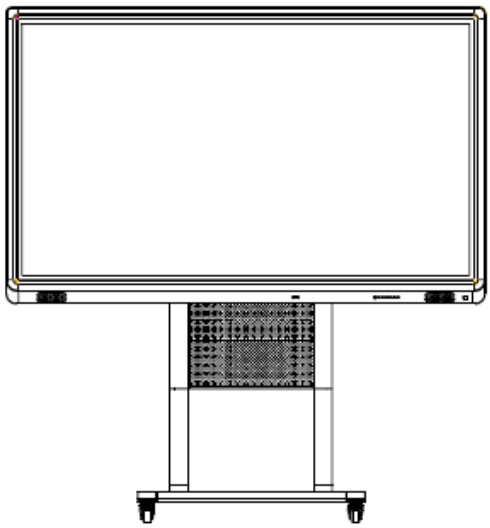
Please follow above picture , Tie-UP mounting bracket to IWB display by 3 screws on each side insert to #2.#3,#4 screw holes. Fix screws to firm condition.
After finished mounting bracket installation, it is easy hang-up display to movable stand.

1.3. 2 Movable stand assembly drawing

Top View

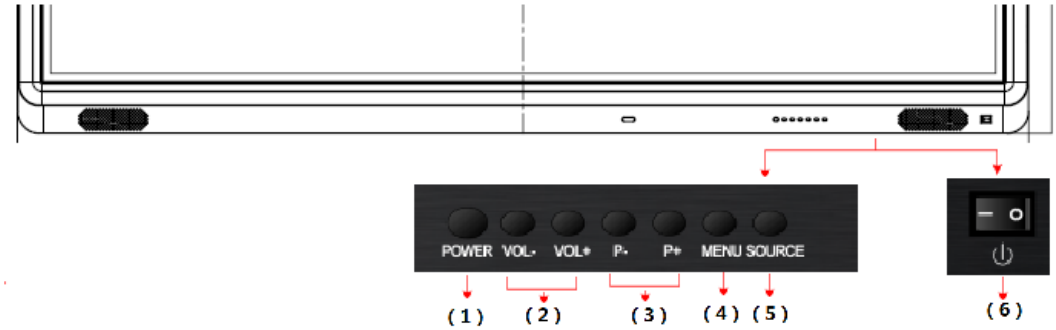






Side View **Front View**

2 CONTROL PANEL (located at the Front panel)

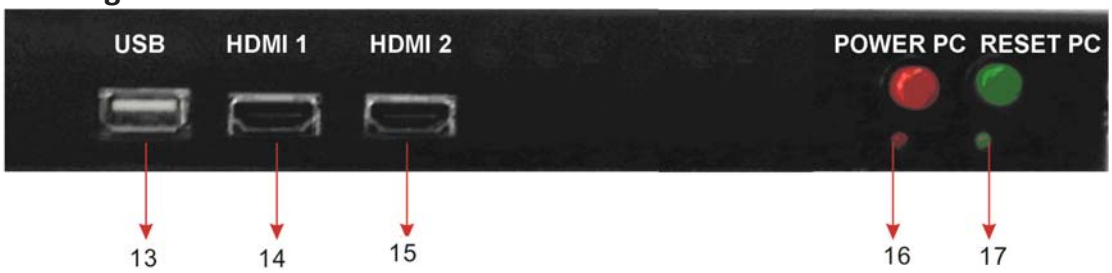


1	POWER	Display power on/off
2	VOL+/VOL-	Sound Volume adjustment
3	P+/P-	Menu Item up/down selection
4	MENU	To enter / exit MENU Page
5	SOURCE	To switch input source
6		Main Switch for Power on/off (one): ON, 0 (zero): OFF

3 INPUT / OUTPUT TERMINALS

Rear Bottom Terminals

Rear Right Side Terminals



1. USB TOUCH	USB terminal for touch panel. (USB: DC5V, 500mA)
2. RS232	Serial control interface, Used for transfer data/commands
3. EARPHONE	Earphone Signal Output.
4. COAX	SPDIF-audio Output (Digital sound signal interface)
5. YPBPR(Y)	For YPbPr signal input (Connected to DVD, set -top –box etc. with YPbPr output device). Y component signal input to this RCA Jack (G)
6. YPBPR(PB)	For YPbPr signal input (Connected to DVD, set -top –box etc. with YPbPr output device). PB Color component signal input to this RCA Jack (B)
7. YPBPR(PR)	For YPbPr signal input (Connected to DVD, set -top –box etc. with YPbPr output device). PR Color component signal input to this RCA Jack (R)
8. AV(CVBS)	Composite video input
9. AV(L)	Audio signals input (L-Channel)
10. AV(R)	Audio signals input (R-Channel)
11. PC AUDIO	PC Audio input (related to VGA PC Signal input)
12. VGA	PC Signal Input terminal
13. USB	USB terminal for other peripheral device, such as mouse, hard-disk Input

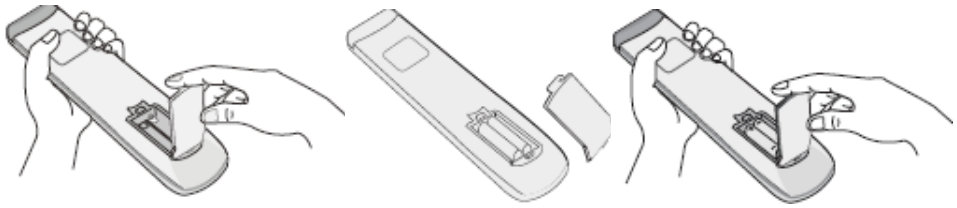
14. HDMI 1	High Definition Multimedia Interface-1
15. HDMI 2	High Definition Multimedia Interface-2
16. POWER PC	Turn ON/OFF the internal PC power (if installed)
17. RESET PC	Internal PC reset, suspends all programs currently running, the PC system re-starts

NOTE: Functions related to PC will only work if internal PC is installed.

4.2 Remote Control Instruction

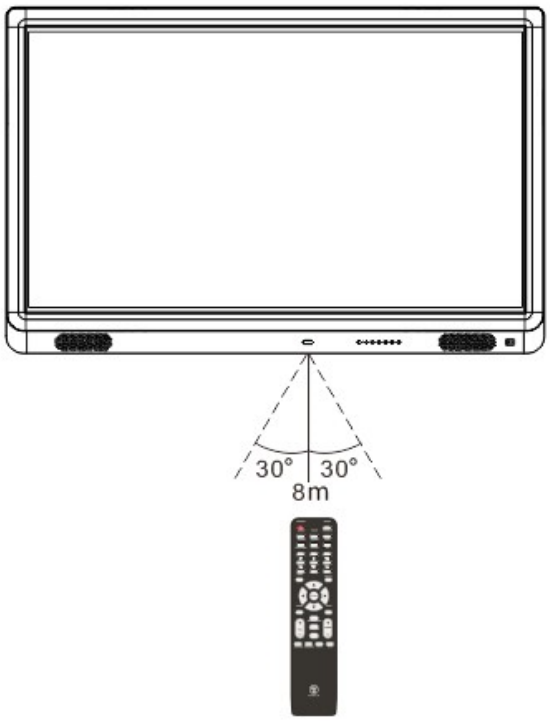
Insert the Batteries

1 Remove the cover on the rear of the remote control
2 Insert two “AAA” batteries
3 Place the cover



4.3 Remote control range

The range of remote control receiver as shown below:



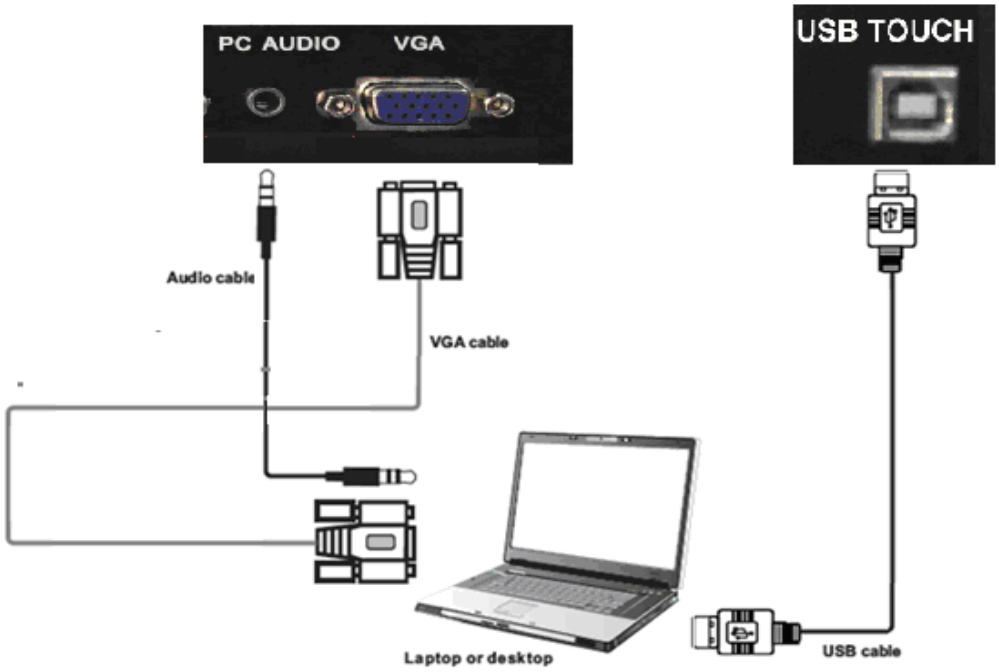
CAUTION

RISK OF DAMAGE IF BATTERY IS REPLACED WITH AN INCORRECT TYPE
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

5 CONNECTION GUIDE

For the safety of you and your unit, please do not connect any power source before the external device is installed.

5.1 External Computer and Touch Connecting

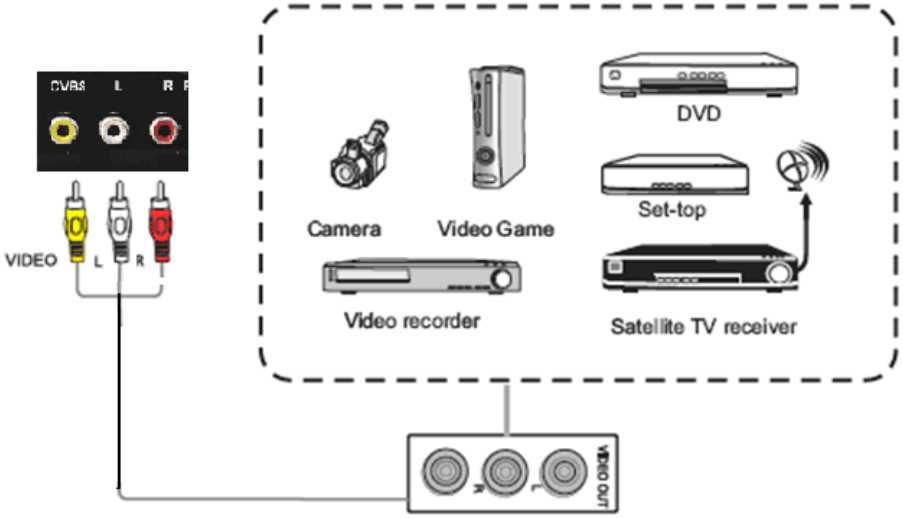


(1) Connect a VGA cable (15pin) between the PC-VGA Input and Output of external PC. Connect an audio cable between the PC and display.
(2) Connect a USB cable between the external PC and USB terminal
(3) Plug-in the POWER cord and switch the display on.
(4) Start the external computer that touch function will be activated in free of driver.
(5) Press IWB main power switch to ON position ( ) to turn the display on.
(6) Press Source button to select INPUT to VGA 1 or VGA 2 corresponding to external PC connection.

Caution ：

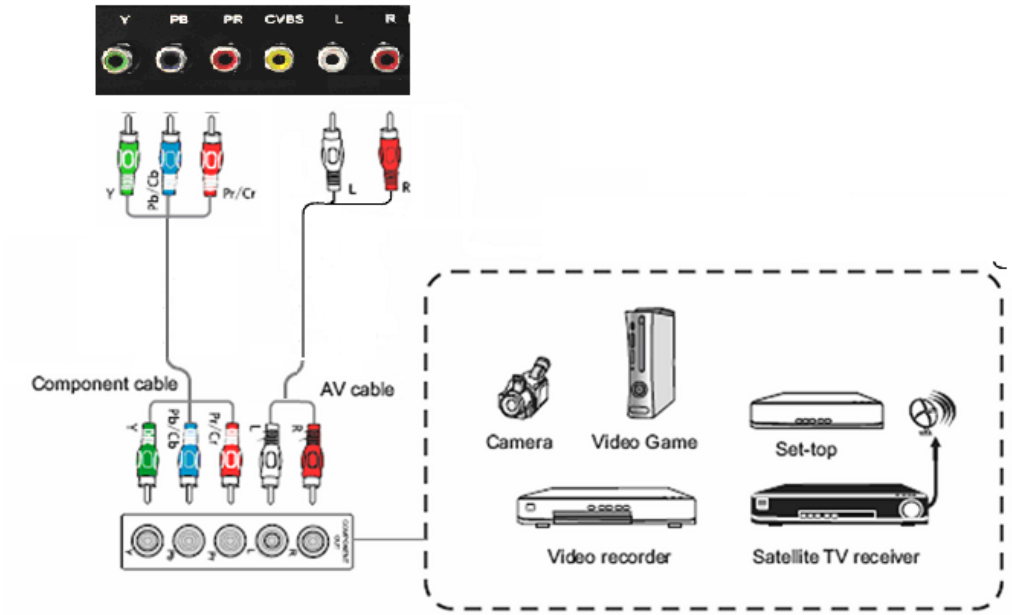
Touch USB connected to external PC for White Board application, free of driver for touch panel.
Just simply connect external PC and white board can be activate.
In case you use Inside PC for white board,, inside has connection for OPS. You need remove USB cable for External PC. Touch panel only support one PC operation. Both PC connection will cause error in writing or Break of strokes.

5.2 AV Connection



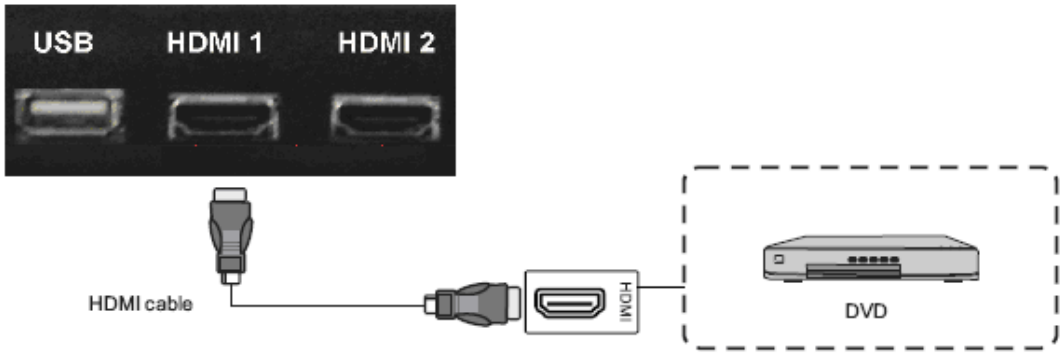
(1) Connect an AV cable between display and external device through the AV out.
Yellow is Video, Red is Audio-R, White is Audio-L .
(2) Plug-in the POWER cord and turn ON the display.
(3) Press main power switch located on the front of the display to IN position to turn the power on
(4) Press INPUT to change source to AV.

5.3 Y-Pb-Pr INPUT



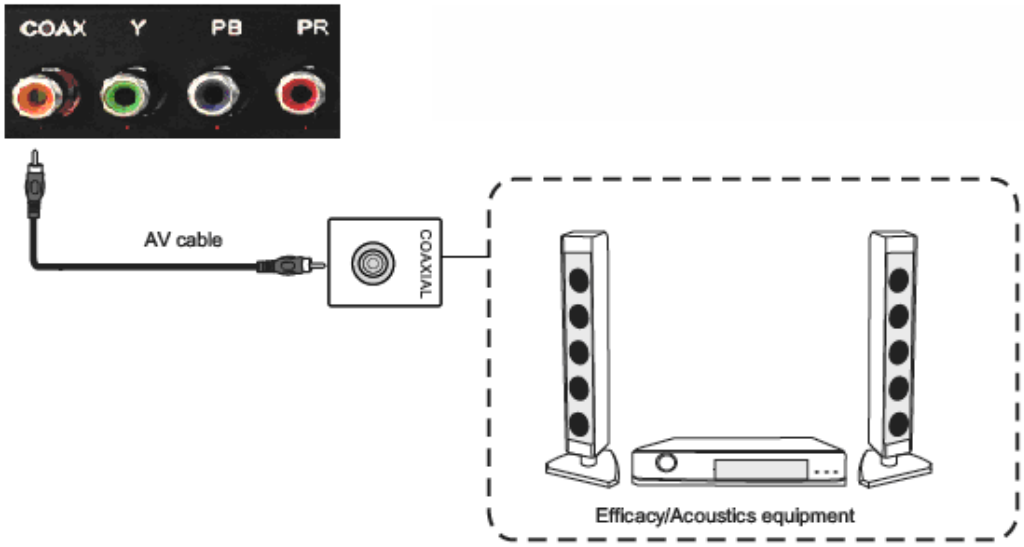
(1). Connect the Y-Pb-Pr cable between the display and an external device.
(2). Plug-in the POWER cord and switch it on from the rear panel.
(3). Press main power switch to turn the power on.
(4). Press INPUT to change source to YPbPr.

5.4 HDMI1 / HDMI2 INPUT



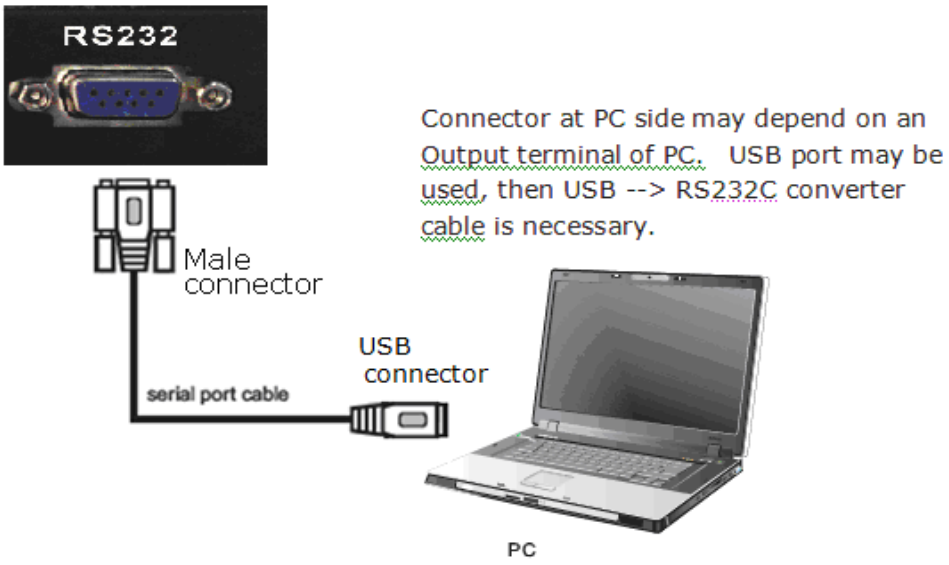
(1) Connect a HDMI cable from the display to an external device.
(2).Plug-in the POWER cord and switch it on from the rear panel.
(3) Press main power switch to turn the power on.
(4) From the external device select input source to HDMI.

5.5 COAXIAL CONNECTION (SPDIP AUDIO OUTPUT)



(1) Connect a Coaxial cable from display to an external device.
(2) Plug-in the POWER cord and switch it on from the rear panel.
(3) Press main power switch to turn the power on

6 RS232C COMMUNICATION


RS232
Connector at PC side may depend on an Output terminal of PC. USB port may be used, then USB --> RS232C converter cable is necessary.
Male connector
USB connector
serial port cable
PC

After connecting the central control system and unit, you can use RS232 control some of the function, such as power on/off or adjust the volume etc.

6.1 RS232C

Baud speed: 9600bps
Bit number: 8 bit
Odd Parity: None
Stop bit: 1 bit

6.2 Protocol

Function	Protocol (16th)	Code
POWER ON	F6 01 01 00 F8 6F	0x01
POWER OFF	F6 02 01 00 F9 6F	0x02
VOLUME +	F6 03 01 00 FA 6F	0x03
VOLUME -	F6 04 01 00 FB 6F	0x04
HDMI1	F6 05 01 00 FC 6F	0x05
HDMI2	F6 06 01 00 FD 6F	0x06
Inside/PC	F6 07 01 00 FE 6F	0x07
VGA1	F6 08 01 00 FF 6F	0x08
VGA2	F6 09 01 00 00 6F	0x09
USB	F6 0A 01 00 01 6F	0x0A
AV	F6 0B 01 00 02 6F	0x0B
YPbPr	F6 0C 01 00 03 6F	0x0C

6.3 Acknowledgement

Send Command	F6	CMD	ID	DATA	CS	6F
ACC	F7	CMD	ID	DATA	CS	7F
NAC	F7	CMD	ID	0xFF	CS	7F

In the Protocol list (command list), ID=01 (0x01) is used.
0xF6: command start bit
0x6F: command end bit

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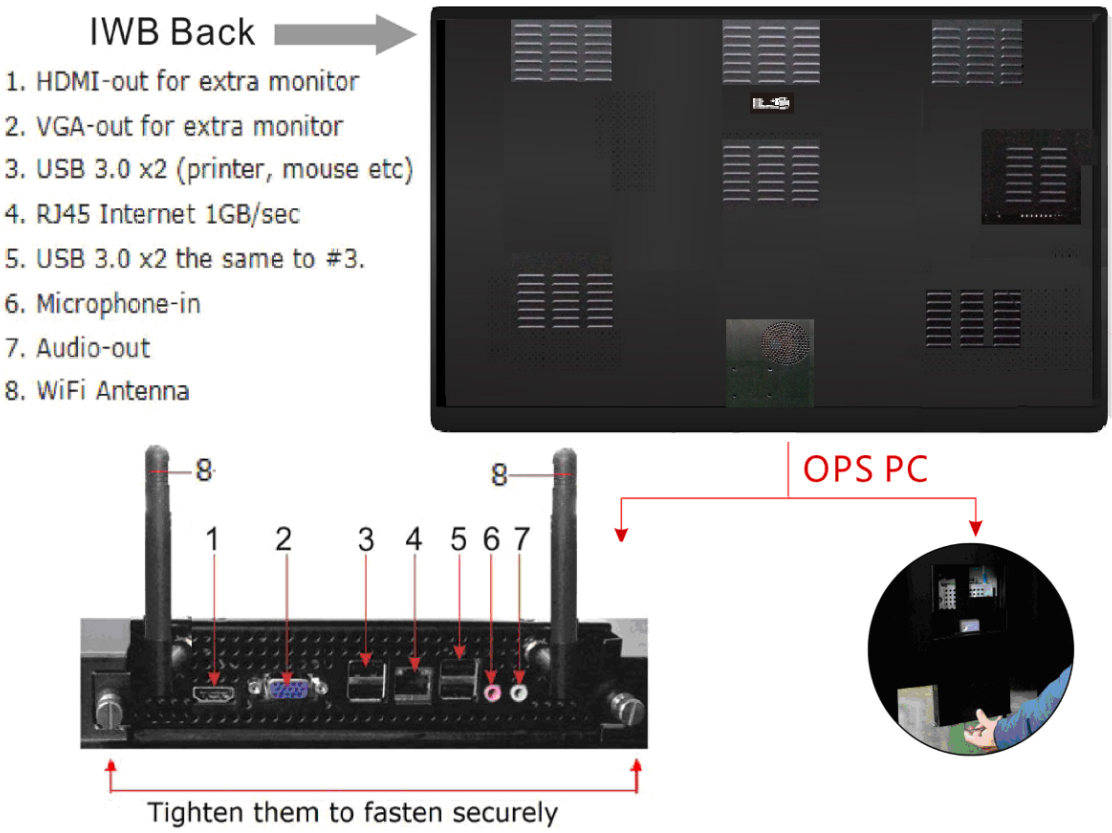
7 INSIDE PC UNIT INSTALLATION/REPLACEMENT (OPTION)

This PC unit （IWB PC-02）is compatible with WB84U1D1 only,
do not intend to attach this unit to the other models.
Be sure Turn-off the TWB Monitor before installation of inside PC.



CAUTION

1. Power supply of inside PC and HDMI signal to IWB display are connected by internal 40-pin connector. Before installation, check if something clogged at the connector-pin area, if so, remove them and keep the connector clean. Insert inside PC to slot, gently and smooth pushing is highly recommended. After insert inside PC, be sure to tighten both 2-handheld screws to fasten pc securely.
2. There have 2- Wifi Antenna provided inside package . When you feel wifi signal is strong enough , You Could only use one antenna. When you need stronger Wifi signal, 2-Antena are possible to be both used together.
3. On Inside PC unit back side, a +19V DC power supply input Jack, Only for unit service purpose. Don't insert DC adopter in normal application .

7.1 Inside PC basic operations

After installation of the PC unit, its operation is based on the IWB mother monitor
Operation. To turn ON or OFF IWB there have main switch and remote control to access.
Refer to the picture below:

At the right side of the IWB Monitor & at lower portion, Input terminals and switches are located. There are two switches, one for “PC Power” and the other “for PC reset”, they are the switches related to this Optional PC unit operation. The PC Power switch is a “cyclic type”, push-ON, push-OFF and PC Reset is push-make contact type.

Push Power PC button to switch ON PC

Wait about 30 seconds after installing PC at back of the display, press POWER to turn on the Monitor and PC together.

Push Power PC button to switch OFF PC

Press the POWER button, wait for 2 to 3 seconds and then, press the power button again to turn off the Monitor and PC together.

Monitor ON, PC OFF

While using PC source, select "WINDOWS" on the lower left corner of the desktop or press the "WINDOWS" button on the remote control, and then select "off", then, the PC turns off but keep the Monitor on.

PC ON

When turn on the Monitor, the PC is normally off. It is possible to turn on the PC by pressing the INPUT button of the monitor to select PC.

PC RESET

When the PC unit needs to reset by any happening or occasi pushing green button should take place for the operation. All the PC operation stops and returns back to its start point status, as starting the PC from zero point.

7.2 Windows Operation System Activate

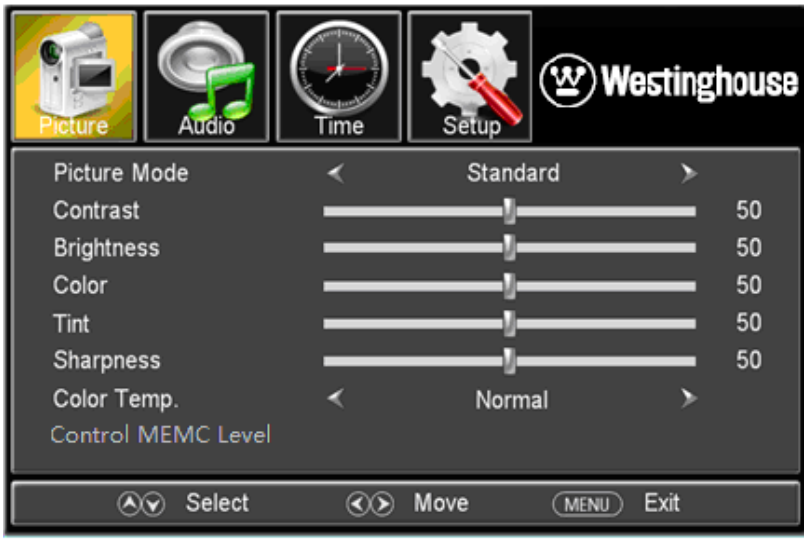
When you finished OPS installation and fixed it well. You may need use OS. In OPS accessory bag, you could see a system disk , Inside have Windows 8 Program. We have finished installation Windows 8 in OPS, but this Windows 8 System is not registered yet. You just simply activate Windows 8 System by a activate key. Please be reminded that , this activate key label is located on a OPS top-side shown as right side picture :

Please use this activate key to activate your Windows operation system step by step.

8 OSD OPERATION

8.1 Instruction for main menu

8.1.1 Appearance



8.1.2 Operation of keys under main menu

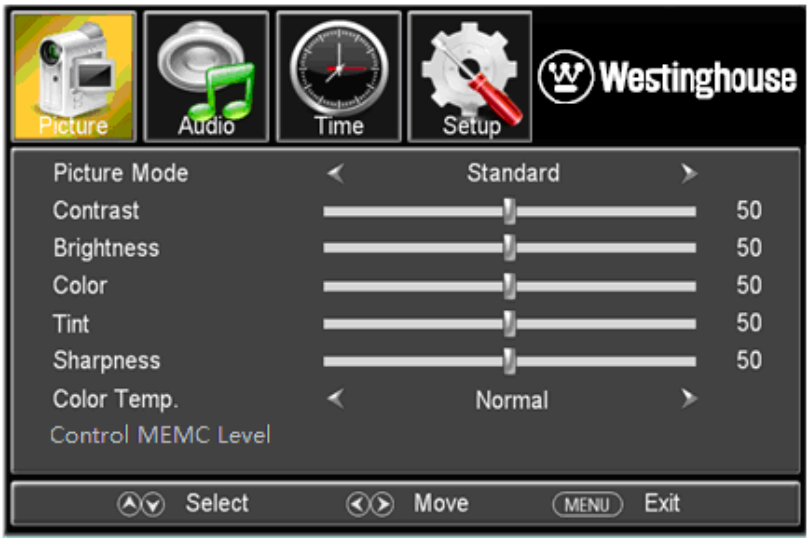
key	Function	
	Main	Sub
Menu	Exit from Main menu	Return to Main menu
Exit	Exit from Main menu	Exit Menu
Up	--------	Select previous Item, if current Item is the first one, then it. will skip to the last one
Down	Enter Sub Menu	Select next Item, if current Item is the last one, then it will skip to the first one
Right	Change Sub Menu	Adjust Item option or value; enter the next menu.
Left	Change Sun Menu	Adjust Item option or value
OK/Enter	Enter Sub Menu	Enter next menu

Note:
1、The menu is divided into three parts on the whole: main menu, submenu, prompt menu
2、Main menu will be side-to-side setup from left to right: **Picture / Audio/ Time/ Setup**
3、Submenu will be end-to-end arranged from the top town.
4、Prompt menu will be side-to-side setup from left to right

8.2 Function introduction of submenu

8.2.1 Picture submenu

8.2.1.1 Appearance



8.2.1.2 Function introduction

Item	Variable range	Default	Explanation
Picture Mode	Standard / Dynamic /Movie / User	Standard	Pressing button for Picture Mode Change Over.
Contrast	0----100	50	You will need to watch the picture when you adjust it, so,we close the main menu, pop up Contrast small menu
Bright	0----100	50	Same to Contrast
Color	0----100	50	This item is unavailable under VGA channel and DVI signal
Tint	-50----- 50	0	Only adjustable under NTSC signal, un-adjustable under other signals. Recover to 0 under non NTSC signal.
Sharpness	0----100	50	This Item is unavailable under VGA and DVI signal
Color Temp	Neutral/Warm/ Cool	Neutral	
Control MEMC Level	Inside/PC mode MEMC	Off (default)	MEMC (Motion Estimate & Motion Compensation) ， This is move picture Quality Enhance and Improve technology, MEMC level : Low/Medium/Strong
	Other Input Mode MEMC	Low (default)	

Note:

We set default setting as bellow, and you can change them to proper value for your product.

Standard：Contrast = 50，Brightness = 50, Color = 50, Sharpness =50。

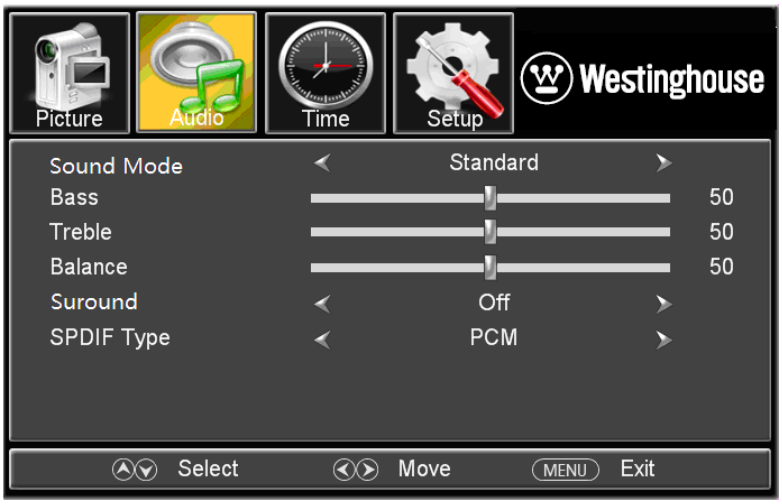
Dynamic：Contrast = 70，Brightness = 60, Color = 60, Sharpness =60。

Movie ：Contrast = 45，Brightness = 40, Color = 50, Sharpness = 50。

User：Contrast = 50，Brightness = 50, Color = 50, Sharpness = 50。

8.2.2 Audio submenu

8.2.2.1 Appearance



8.2.2.2 Function introduction

Item	Variable range	Default	Explanation
Sound Mode	Standard / Music/ Movie /User	Standard	
Bass	0---100	50	
Treble	0---100	50	
Balance	0---100	50	
Surround	On/Off	Off	Surround Sound On/Off Control
SPDIF	RAW/ PCM	RAW	Only available under HDMI channel, it is grey under other channels

Note:

We set default setting as bellow, and you can change them to proper value for your product.

Sound Mode High, low volume for each item:

Standard：Bass = 50, Treble = 50, Balance = 50。

Music ：Bass = 80, Treble = 60, Balance = 50。

Movie ：Bass = 60, Treble = 55, Balance = 50。

User ：Bass = 50, Treble = 50, Balance = 50。

8.2.3 Time submenu
8.2.3.1 Appearance

8.2.3.2 Function introduction

Item	Variable range	Default	Explanation
Sleep Timer	Off/5Min/10Min/15Min/30Min /45Min/60Min/90Min/120Min /180Min/240Min	Off	Pressing Button to select one of Sleep Timer setting.
Time Zone	Pacific(UTC-8)/ Alaska(UTC-9)/ Hawaii(UTC-10)/ Eastern(UTC-5)/ Central(UTC-6)/ Mountain(UTC-7)	Pacific	Default value can be modified according to client's requirements.

8.2.4 Setup submenu
8.2.4.1 Appearance

8.2.4.2 Function introduction

Item	Variable range	Default	Explanation
Menu Language	English / French /Spanish	English	Now there are only three kinds of language for OSD, if clients need more, we can add the language according to your needs.
Zoom Mode	Non VGA channel：Wide/Zoom/Cinema /Normal VGA channel ：Wide/Normal	Wide	Only can be adjusted when there is signal
Noise Reduction	Off/Weak/Middle/ Strong	Middle	
DLC			Dynamic Light Control for picture brightness & contrast
Restore Default			For this operation, first confirm which options need to be restore according to client's requirements. We need to have one default standard. Menu pattern please refer to 4.2.4.3.5

8.2.4.3.3 Restore Default

It is to remind the user whether need to restore, you can use direction key, to confirm it.

8. 3 Hot Key Menu

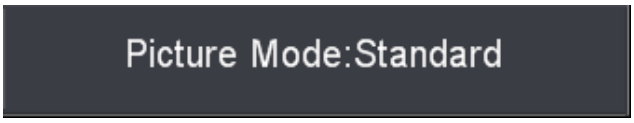
8.3. 1 Info Key

Note:

1、 If it is Display menu, then press INFO key to close the menu. It is also used to open Display menu
2、 After closing MENU and Source Input menu，Press INFO key, display menu will automatically pop up
3、 No operation for 3 seconds, then it is closed automatically

8.3.2 Picture Mode

Press P-Mode key, Picture Mode display menu opened.



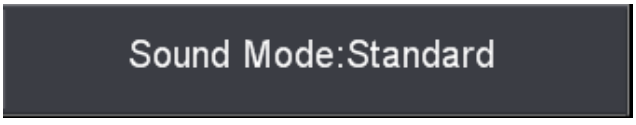
Key's functions：

keys	Function
Picture Mode (P-Mode)	Picture Mode works only when there is signal. If it is P-Mode menu, then change options of P-Mode(order is same with that in main menu), or, it is used to open P-Mode menu).
MEMU	Exit from P-Mode menu, open main menu
EXIT	Exit from P-Mode menu

Note：No operation for 3 seconds, then exit from P-Mode menu

8.3.3 Sound Mode

Press S-Mode key, Sound Mode display menu appears on lower portion of screen.



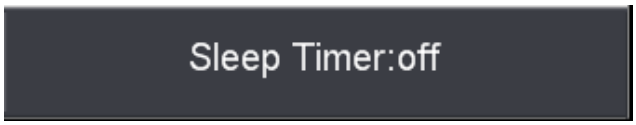
Key's functions：

keys	Function

Sound Mode (S-Mode)	Sound Mode key works only when there is signal. If it is S-Mode menu, then change options of S-Mode (order is same with that in main menu), or, it is used to open S-Mode menu
MEMU	Exit from S-Mode menu, open main menu
EXIT	Exit from S-Mode menu
-----	No operation for 3 seconds, then exit from S-Mode menu

8.3.4 Sleep

Press Sleep key, Sleep timer menu appears on lower portion of screen.

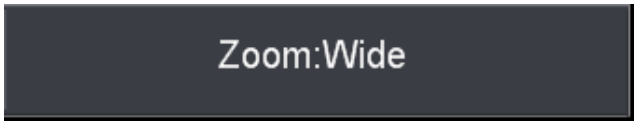


Key's functions：

keys	Function
TIMER	If it is Sleep menu, then change the options of sleep, or, it is used to open Sleep menu。
MEMU	Exit from Sleep menu, open main menu
EXIT	Exit from Sleep menu
	No operation for 3 seconds, then exit from Sleep menu

8.3.5 Zoom

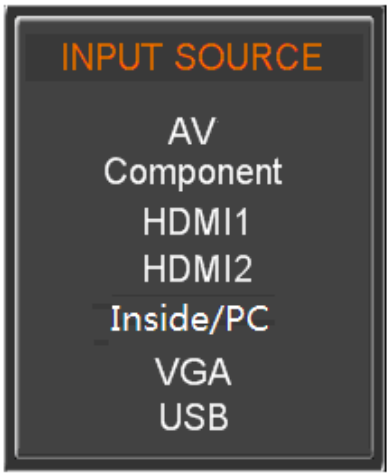
USB input mode, Press Zoom Key, to enlarge picture.



Key's functions：

keys	Function
Zoom	If it is Zoom menu, then change the options of Zoom, or, it is used to open Zoom menu
MEMU	Exit from Zoom menu, open main menu
EXIT	Exit from Zoom menu
	No operation for 3 seconds, then exit from Zoom menu

8.3.6 Input Source menu



Key's functions:

keys	Function
Source	If it is Source menu, Press for close Source Menu. or, Press it to open Source Menu
MEMU	Exit from Source menu, open main menu
EXIT	Exit from Source memu
RIGHT	Used to change selection.
LEFT	---------
UP	Cursor moves to last ITEM
DOWN	Cursor moves to next ITEM
OK/Enter	Used to change channel

"Source Menu " Appear on screen, use "▲▼ to Navigate of each input source .
Press "Enter" to make the input selection.
No operation for 12 seconds, then exit from Source menu

8.3.7 Volume menu

Press Volume Key , Volume Menu opened and select your desirable sound level.

Key's functions:

keys	Function
Vol +	If it is Volume menu, then volume will increase, or, it is used to open Volume menu
Vol-	If it is Volume menu, then volume will decrease, or, it is used to open volume menu
EXIT	Close Volume menu

RIGHT	If it is Volume menu, then volume will increase
LEFT	If it is Volume menu, the volume will decrease

Note: No operation for 3 seconds, then Exit from Volume menu

8.3.8 MUTE menu

Press Mute Key to open Mute Menu. Press once again， Mute Menu closed.

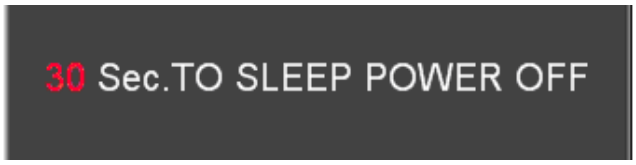
Note:

1、Make sure MUTE menu exist with other menu, only MUTE key can close MUTE menu

2、When MUTE menu displays, if the option of CC Mode is On, then close MUTE menu.

3、If option of CC Mode is CC On MUTE, then press MUTE key to open MUTE menu, close MUTE menu 3 seconds later, then it shows the content of CC.

8.3.9 Shutdown counter down menu



Note:

There will be count down menu 30 seconds before shutdown, press any key(except MUTE)will stop this action.

8.3.10 Timing information prompt menu

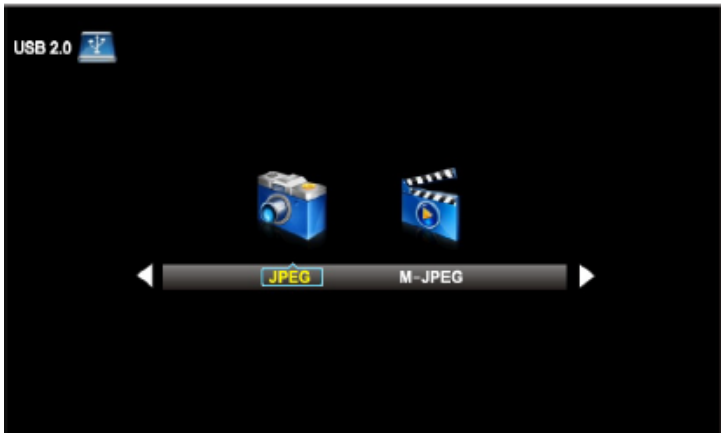
Note：

When Timing changes, prompt menu will pop up automatically

9 USB Input mode

9.1 Introduction

Select USB port from Input Source menu, then system in USB input status.
In USB Input Mode , Only JPEG & M-JPEG signal format can be support. The system automatically Identified file format , Only show the support file.



9.2 Appearance

9.2.1 Non Input Mode

If No USB module inserted, Top and left of screen appear " No device".
When USB module inserted, Top and left of screen will shown " USB 2.0" etc.

9.2.2 USB Application Mode

USB module if have JPEG & M-JPEG format file, it is possible to display.
Other else format file can not be opened.

Item	Function
Pause	Pause the current playing file
FB	Fast backward
FF	Fast forward
Prev.	Previous file
Next	Next file
Stop	Stop the current playing file
R_ALL/R_None	Set the repeat mode： one/all/noe
Set A	Repeat time "A" to "B"
Slow For…	Slowly forward
Step Fow…	Paly in "steping" mode
Goto Time	Find the position and play from here
Zoom In	
Zoom Out	

10 DISPLAY SIGNAL RESOLUTION FOR REFERENCE

1. Y-Pb-Pr (Y-Cb-Cr) Mode

Resolution / Display mode	Vertical frequency (Hz)
480P	60
480i	
576P	50
576i	
720P	50
	60
1080i	50
	60
1080P	50
	60

2. VGA Mode

Resolution / Display mode	Vertical frequency (Hz)
640*480	60
800*600	
1024*768	60
1280*800	
1920*1080	50
	60

3. HDMI Mode: **Standard TMDS**

480I/ 480P	60Hz
576I/ 576P	50 Hz
720P	50/60 Hz
1080I/ 1080P	50/60 Hz
4K2K	30 Hz

11 RESOURCE DVD

At accessory box , you could find a DVD disk. There are documents as below :
1) User's Manu for WB55FiD1/WB65F1D1/WB70F1D1 (UM);
2) User Manual for WB84U1D1(UM)
3) WScribe Program for White Board (SW)
4) User's Manu for White Board Program of WScribe (UM)
5) WScribe Program quick installation guide (QIG)
6) Driver Program for IWB PC-01 & IWB PC-02

Please follow the Quick Instruction Guide to install WScribe program and activate for White Board application.

Wscribe activate Key & procedure

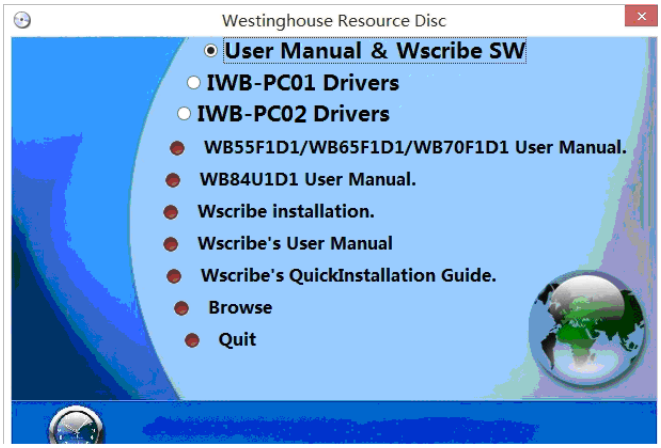
1) Checking parts: Accessory DVD as below picture.

2) Activate process:

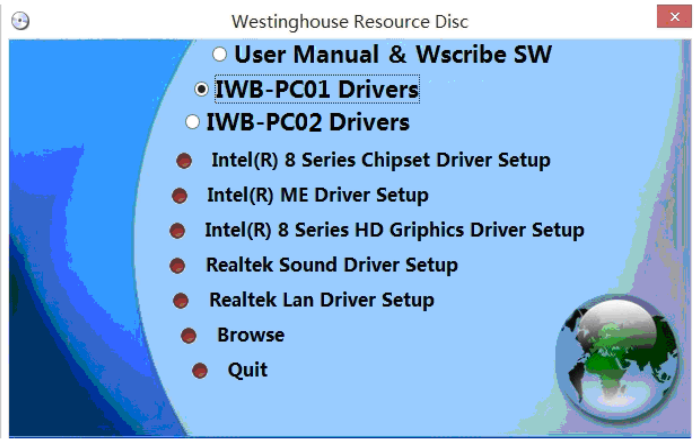
Wscribe is not registered, Please check on DVD registration code 20 BITs, Its location on DVD surface (Reference red circle). Please follow WScribe Installation Guide to activate step by step.

3） DVD Interface

Open DVD， following Interface could be seen. You can select what you need：



When you need driver for PC， you can select IWB PC 01 Drivers for WB55、WBWB65、WB70。 For WB84，should select TWB PC-02 Drivers。



12 TROUBLE SHOOTING

Remote control: no function	1 .Check whether there is an object between remote control and IWB display. 2. Check whether the batteries polarity in remote control is correct. 3. Check whether the batteries are exhausted.
The unit shuts down automatically	1. Check sleep function if activated. 2. Check whether there is a sudden power failure. 3. Check for the signal to system and control.

PC mode

No signal	1. Check display setting. 2. Check the resolution. 3. Adjust the Hs & Vs (synchronization) in the menu.
Background streaking	1 .Choose auto-adjust. 2. Adjust clock and phase.
Wrong color	1. Check the VGA. 2. Adjust color, tint, brightness and contrast in case of AV-input terminal is used.
Non supported format	1. Choose auto adjust. 2. Adjust clock and phase.

Touch Function

No Touch Software installed	1. Touch panel driver is no need to install. 2. Install a touch-software in your PC, optional PC has it.

No Touch Function	1. Check setup. 2. Check whether the touch pen is working properly.
Remarks	This IWB with 2- Touch USB, But it is option use with PC. It is not recommend both touch USB port connect with PC same time.

Video not working properly

No picture/No sound	1. Check POWER status. 2. Check the signal cable. 3. Check the PC source.
Pixelization	1. Check the signal cable. 2. Check for other electronics signal interferences.
Poor picture quality	1 .Adjust chroma, brightness and contrast in the menu. 2. Check the signal cable.

Audio not working properly

No sound	1. Check the mute function if operated. 2. Adjust sound volume. 3. Check the audio cable.
One speaker	1. Adjust sound balance in the menu. 2. Check the setting in sound control panel of computer. 3. Check the audio cable.
VGA-OUT silence	1. Check for proper earphone connection.

Care and Maintenance

With proper care, your unit should provide you many years of service. Please follow these guidelines to ensure the maximum performance from your unit.

Cleaning

Unplug the unit from the wall outlet before cleaning or polishing it.
Do not use liquid or aerosol cleaners.
Use a cloth lightly dampened with water for cleaning the exterior of the unit.
Repeat occasionally if possible, Do not use or place liquids near or on the unit.

Don't use system for long periods of time, please unplug unit when not in use,
To prevent system failures and power supply surges use power surge protector.

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